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## ABSTRACT OF DISCLOSURE

in real-time	4		
which satisfi	5		
<b>D</b> eterministi	6		
processed a	7	ini.	
state machir	8		
and next sta	9		
processed in	10		
whether to to	11	e Int	
is satisfied o	12	14	
determine a	13		
		haia	

A system and method in accordance with the present invention determines he portions of a set of characters from a data or character stream es one or more predetermined regular expressions. A Real-time c Einite state Automaton (RDFA) ensures that the set of characters is at high speeds with relatively small memory requirements. An optimized ne models the regular expression(s) and state related alphabet lookup te tables are generated. Characters from the data stream are n parallel using the alphabet lookup and next state tables, to determine ransition to a next state or a terminal state, until the regular expression r processing is terminated. Additional means may be implemented to next action from satisfaction of the regular expression.